

W9459-02

10/633,509

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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL* | DOCUMENT NUMBER | DATE       | NAME             | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE | Copy<br>Submitted        |
|----------------------|-----------------|------------|------------------|-------|----------|-------------------------------|--------------------------|
| <i>mb</i>            | 4234453         | 11/18/1980 | Rekers et al     | 252   | 428      | 9/20/76                       | <input type="checkbox"/> |
|                      | 4375406         | 3/1/1983   | Santilli         | 208   | 251      | 01/21/1981                    | <input type="checkbox"/> |
|                      | 4629712         | 12/16/1986 | Pinnavaia et al. | 502   | 63       | 8/17/1984                     | <input type="checkbox"/> |
|                      | 4637992         | 1/20/1987  | Lewis et al.     | 502   | 84       | 12/17/1984                    | <input type="checkbox"/> |
|                      | 4701432         | 10/20/1987 | Welborn Jr.      |       |          |                               | <input type="checkbox"/> |
|                      | 4716205         | 12/29/1987 | Klabunde         |       |          |                               | <input type="checkbox"/> |
|                      | 4761391         | 8/2/1988   | Occelli          | 502   | 63       | 6/30/1986                     | <input type="checkbox"/> |
|                      | 4904631         | 2/27/1990  | Chang            |       |          |                               | <input type="checkbox"/> |
|                      | 4981825         | 1/1/1991   | Pinnavaia et al. | 502   | 63       | 9/12/1989                     | <input type="checkbox"/> |
|                      | 4995964         | 2/26/1991  | Gortsema et al.  | 208   | 112      | 2/26/1988                     | <input type="checkbox"/> |
|                      | 5008228         | 4/16/1991  | Chang            |       |          |                               | <input type="checkbox"/> |
|                      | 5238892         | 8/24/1993  | Chang            | 502   | 111      | 6/15/1992                     | <input type="checkbox"/> |
|                      | 5240894         | 8/31/1993  | Burkhardt et al. |       |          |                               | <input type="checkbox"/> |
|                      | 5308811         | 5/3/1994   | Suga et al.      | 502   | 62       | 5/1/1992                      | <input type="checkbox"/> |
|                      | 5382738         | 1/17/1995  | Reagen et al.    |       |          |                               | <input type="checkbox"/> |
|                      | 5395808         | 3/7/1995   | Miller et al.    | 502   | 7        | 12/21/1992                    | <input type="checkbox"/> |
|                      | 5399636         | 3/21/1995  | Alt et al.       | 526   | 129      | 6/11/1993                     | <input type="checkbox"/> |
|                      | 5403799         | 8/4/1995   | Miller et al.    | 502   | 64       | 12/21/1992                    | <input type="checkbox"/> |
| ↓                    | 5403809         | 4/4/1995   | Miller et al     | 502   | 413      | 12/21/92                      | <input type="checkbox"/> |

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|----------------------|-----------------|------------|-----------------------|-------|----------|-------------------------------|--------------------------|
| jmb                  | 5529965         | 6/25/1996  | Chang                 |       |          |                               | <input type="checkbox"/> |
|                      | 5569634         | 10/29/1996 | Miller et al          | 502   | 64       | 12/12/1994                    | <input type="checkbox"/> |
|                      | 5629253         | 5/13/1997  | Chang                 |       |          |                               | <input type="checkbox"/> |
|                      | 5633419         | 5/27/1997  | Spencer et al.        | 585   | 522      | 6/6/1995                      | <input type="checkbox"/> |
|                      | 5637660         | 6/10/1997  | Nagy et al.           |       |          |                               | <input type="checkbox"/> |
|                      | 5707913         | 1/13/1998  | Schlund et al.        |       |          |                               | <input type="checkbox"/> |
|                      | 5753577         | 5/19/1998  | Hamura et al.         | 502   | 113      | 2/21/1997                     | <input type="checkbox"/> |
|                      | 5807800         | 9/15/1998  | Shamshoum et al.      | 502   | 104      | 2/11/1997                     | <input type="checkbox"/> |
|                      | 5807938         | 9/15/1998  | Kaneko et al.         | 526   | 160      | 2/20/1996                     | <input type="checkbox"/> |
|                      | 5817724         | 10/6/1998  | Aoki et al.           | 526   | 127      | 1/21/97                       | <input type="checkbox"/> |
|                      | 5830820         | 11/3/1998  | Yano et al.           | 502   | 62       | 3/13/1997                     | <input type="checkbox"/> |
|                      | 5852146         | 12/22/1998 | Reichle et al.        |       |          |                               | <input type="checkbox"/> |
|                      | 5866663         | 2/2/1999   | Brookhart et al.      | 526   | 170      | 7/10/1997                     | <input type="checkbox"/> |
|                      | 5880241         | 3/9/1999   | Brookhart             | 526   | 348      | 6/24/1996                     | <input type="checkbox"/> |
|                      | 5880323         | 3/9/1999   | Brookhart, III et al. | 585   | 527      | 7/10/1997                     | <input type="checkbox"/> |
|                      | 5886224         | 3/23/1999  | Brookhart et al.      | 564   | 272      | 7/10/1997                     | <input type="checkbox"/> |
|                      | 5891963         | 4/6/1999   | Brookhart et al.      | 525   | 326.1    | 7/10/1997                     | <input type="checkbox"/> |
| ✓                    | 5955555         | 9/21/1999  | Bennett               | 526   | 133      | 12/16/97                      | <input type="checkbox"/> |

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## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL* | DOCUMENT NUMBER | DATE       | COUNTRY | CLASS | SUBCLASS | TRANS<br>SUBMITTED? | Copy<br>Submitted        | ENG LANG<br>EQUIV |
|----------------------|-----------------|------------|---------|-------|----------|---------------------|--------------------------|-------------------|
|                      | 19746280        | 4/22/1999  | DE      | C08F  | 4/42     | Yes                 | <input type="checkbox"/> |                   |
|                      | 490226          | 6/17/1992  | Europe  | B01J  | 2/00     | No                  | <input type="checkbox"/> |                   |
|                      | 849288          | 12/19/1997 | Europe  | G08F  | 10/00    | No                  | <input type="checkbox"/> |                   |
|                      | 840202          | 5/24/1998  | Europe  | G08F  | 10/00    | No                  | <input type="checkbox"/> |                   |
|                      | 881232          | 12/2/1998  | Europe  | G08F  | 4/502    | No                  | <input type="checkbox"/> |                   |
|                      | 10-338516       | 12/22/1998 | Japan   | G01B  | 33/40    | Yes                 | <input type="checkbox"/> |                   |
|                      | WO 99/12081     | 3/18/1999  | PCT     |       |          | No                  | <input type="checkbox"/> |                   |
|                      | WO 00/20467     | 4/13/2000  | PCT     | G08F  | 4/503    | No                  | <input type="checkbox"/> |                   |
|                      | WO 96/23010     | 8/1/1996   | PCT     | G08F  | 210/16   | No                  | <input type="checkbox"/> |                   |
|                      | WO 97/48743     | 12/24/1997 | PCT     | C08F  | 10/00    | No                  | <input type="checkbox"/> |                   |
|                      | WO 98/27124     | 6/25/1998  | PCT     | G08F  | 10/00    | No                  | <input type="checkbox"/> |                   |
|                      | WO 98/30612     | 7/16/1998  | PCT     | G08F  | 10/06    | No                  | <input type="checkbox"/> |                   |
| <i>mo</i>            | WO 98/56832     | 12/17/1998 | PCT     | C08F  | 4/70     | No                  | <input type="checkbox"/> |                   |
|                      | WO 99/43722     | 9/2/1999   | PCT     | G08F  | 10/02    | No                  | <input type="checkbox"/> |                   |
|                      | WO 99/40362     | 9/10/1999  | PCT     | C08F  | 4/70     | No                  | <input type="checkbox"/> |                   |
|                      | WO 99/46303     | 9/16/1999  | PCT     | G08F  | 10/00    | No                  | <input type="checkbox"/> |                   |
|                      | WO 99/46304     | 9/16/1999  | PCT     | C08F  | 4/70     | No                  | <input type="checkbox"/> |                   |

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OTHER DOCUMENTS (Including author, Title, Date, Pertinent Pages, Etc.)

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Pasquale Longo, Fabia Grisi, Antonio Proto, Adolfo Zambelli, "New Ni(II) based catalysts in the polymerization of olefins", Macromol. Rapid Commun. 19, 31-34 (1998)

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Lynda K. Johnson, Stefan Mecking, and Maurice Brookhart, "Copolymerization of Ethylene and Propylene with Functionalized Vinyl Monomers by Palladium (II) Catalysts", 1996 American Chemical Society, Vol. 118, No. 1, 1996

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Lynda K. Johnson, Christopher M. Killan, and Maurice Brookhart, "New Pd(II)- and Ni(II)-Based Catalysts for Polymerization of Ethylene and  $\alpha$ -olefins", Journal American Chemical Society 1995, 117, 6414-6415.

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"Novel polymerization reactions catalyzed by homogeneous Pd(II) and Ni(II)  $\alpha$ -diimino complexes", CatTech Highlights, March 1997; pg. 65-66

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"New Catalysts to Polymerize Olefins", C&EN, April 13, 1998, pp 11-12

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Rip A. Lee, Rene J. Lachicotte, and Guillermo C. Bazan, "Zirconium Complexes of 9-Phenyl-9-borataanthracene. Synthesis, Structural Characterization, and Reactivity", Journal American Chemical Society 1998, 120, 6037-6046

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Brooke L. Small, Maurice Brookhart, and Alison M.A. Bennett, "Highly Active Iron and Cobalt Catalysts for the Polymerization of Ethylene", Journal American Chemical Society 1998, 120, 4049-4050

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